



### Application

Ideal for calibration of pressure gauges, switches, transmitters, etc.

### Features

**MEASUREMENTS:** Loop powered supply with mA measurement for Transmitter calibration . Electrical measurements of mA & Volts . Peak pressure measurements (High & Low peak)

**PRESSURE SWITCH TEST FACILITY:** Opening and closing pressures are easily identified by display hold while opening and closing contact

**DISPLAY:** Large backlit Graphical display . 'Auto OFF' function for longer battery life

**KEYPAD:** Feather Touch keypad for easy operation . Dedicated ZERO key for Zeroing before test

**PUMP:** Hydraulic hand pump with Divider Block Assembly . Leak Test facility

Instrument



Hydraulic Hand  
Pump with  
Divider Block  
Assembly

HP 700

Carrying Case



Over Pressure Alarm	: 5% of Full Scale
Pressure Media	: Compatible to 316 Stainless Steel
<b>Current Terminal Input</b>	
Protection	: Fuse: 100mA / 250V
Display	: Graphical Display
Backlight	: LED Backlight
Power Supply	: Li-ion Rechargeable Battery
Low Battery Indicator	: Yes
Auto Power Off	: 15 minutes
Battery Backup	: 19 hours
Transmitter Supply	: 24V DC±10% (Loop Powered)
Pressure Connection	: 1/4" BSP Female
Operating Temperature	: 10 to 50°C
Instrument Casing	: ABS Plastic
Instrument Dimensions	: 250 mm x 145 mm x 45 mm (LxWxD)
Instrument Weight	: 650 gms

### Instrument

Model	Range*	Resolution	Accuracy <sup>1</sup>	Selectable Pressure Units
APCK 100	0 to 100 bar	0.01 bar	±0.025% F.S.	bar, kg/cm <sup>2</sup> , MPa, mH <sub>2</sub> O, atm, psi, inHg, ftH <sub>2</sub> O, kPa, inH <sub>2</sub> O, mmHg
APCK 200	0 to 200 bar			bar, kg/cm <sup>2</sup> , MPa, mH <sub>2</sub> O, atm, psi, inHg, ftH <sub>2</sub> O, kPa, inH <sub>2</sub> O
APCK 400	0 to 400 bar			bar, kg/cm <sup>2</sup> , MPa, mH <sub>2</sub> O, atm, psi, inHg, ftH <sub>2</sub> O, kPa
APCK 700	0 to 700 bar			bar, kg/cm <sup>2</sup> , MPa, mH <sub>2</sub> O, atm, psi, inHg, ftH <sub>2</sub> O, kPa

\*Contact us for other ranges.

### Measurements

Facility	Range	Resolution	Accuracy <sup>1</sup>
mA <sup>2</sup>	0 to 50 mA	0.001 mA	±0.025% of Reading + 10 µA
Volts	0 to 30 V	0.001 V	±0.025% of Reading + 3 mV

Note 1: Accuracy specifications include effect of non-linearity, hysteresis and repeatability at 23±5°C.  
Note 2: Active loop - Load @ 800Ω

### Hydraulic Hand Pump with Divider Block Assembly

#### Range:

Generation of Pressure : 700 Bar  
Medium : Hydraulic Oil  
End Connection : 1/4" BSP (F)

### Standard Delivery

1. Instrument : 1 no.
2. Hydraulic Hand Pump with Divider Block Assembly : 1 no.
3. Carrying Case : 1 no.
4. Test Lead (2 wire) : 2 nos.
5. Charger : 1 no.
6. Adapters (each 1 no.): 1/4" BSP (M) x 1/4" NPT (F), 3/8" BSP (F), 3/8" NPT (F), 1/2" BSP (F), 1/2" NPT (F)
7. Nylon Seals : 1/4", 1/2" & 3/8" - 5 nos. each
8. Quick Coupling Connector
9. User Manual : 1 no.
10. Traceable Calibration Certificate

### Optional

1. RS232 with RnD Cal-P Software
2. Accredited (NABL) Calibration Certificate as per ISO/IEC 17025:2005 Standard

Manufacturer of  
**TEST BENCHES  
CALIBRATION INSTRUMENTS**

**ISO 9001:2008  
Certified Company**

[www.rndinstruments.com](http://www.rndinstruments.com)

### Contact

5, Natesan Nagar, Alapakkam,  
Chennai 600116. Tamilnadu, INDIA.  
Tel.: +91-44-4283 9039 / 4284 1119  
Mobile Nos.: +91-87544 78464 / 87544 68463  
email: sales@rndinstruments.com  
service@rndinstruments.com

**ACCREDITED CALIBRATION LABORATORY**

As per ISO / IEC 17025

**THERMAL  
MECHANICAL  
ELECTROTECHNICAL**

[www.calibrationlab.in](http://www.calibrationlab.in)